PLYCO CORPORATION

SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FOR INSTALLATION INTO WOOD FRAMING USE **#12 WOOD SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **1/4 INCH DIAMETER ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
7. FOR INSTALLATION INTO STEEL STUD FRAME USE **#12 GR. 5 SELF-TAPPING SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL STRUCTURE.
8. FOR INSTALLATION ANCHORS THROUGH HINGES ONLY USE **#10 WOOD SCREWS**, **1/4 INCH DIAMETER ITW TAPCONS**, OR **#10 SELF-TAPPING SCREWS** ADHERING TO EMBEDMENT & EDGE DISTANCE REQUIREMENTS LISTED IN NOTES 5-7 ABOVE.
9. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
10. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
11. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
13. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 45 MILS (18 GAUGE).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - ASTM E330-14
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: ALUMINUM 6063-T5 & CS-B STEEL
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS DEFINED IN THE FBC.
8. ALL EXPOSED STEEL COMPONENTS ARE GALVANIZED AND SHOP PRIMED.
9. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 2 FOR GLAZING DETAIL.

TABLE OF CONTENTS

DESIGN PRESSURE RATING

LOCK TYPE	FRAME SIZE	DESIGN PRESSURE		MISSILE IMPACT RATING
w/ EXIT BAR	39.75" X 85.38"	+40.0 / -40.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT
w/ PANIC BAR HARDWARE	51.88" X 85.38"	+25.0 / -20.0 PSF *	W/O WATER INFILTRATION	NON-IMPACT

*UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH/OH HEIGHT IS GREATER THAN 1.0 WHERE WATER INFILTRATION IS REQUIRED.

PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE, WI 53020
PH: (920) 876-3611 FAX: (920) 876-3527

TITLE: SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT) INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 2023 REVISION	FB	09/06/23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.10.02 13:34:29 -04'00'

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL15336

DATE: 01.30.12

DWG. BY: JLA | CHK. BY: HFN

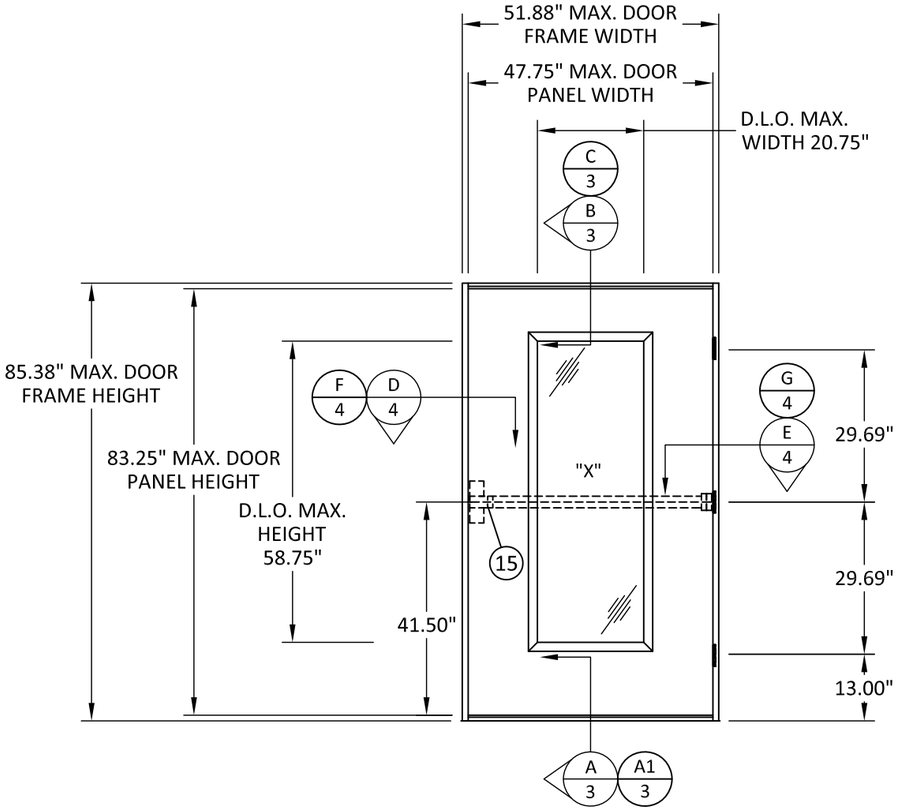
SCALE: NTS

DWG. #: PCO007

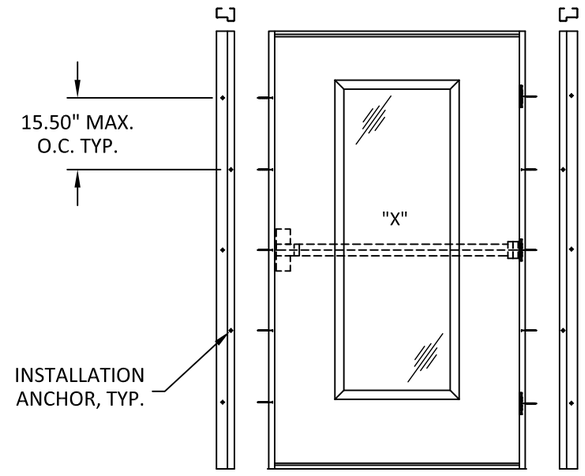
SHEET: 1 OF 5

9/7/2023 2:59 PM

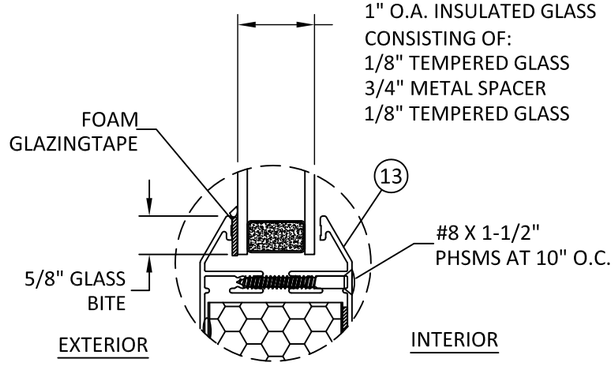
z:\projects\plyco corp\cc-23-0752 - 2023 code change - series 20ev\dwgs\pco007\pco007-fbc2023.dwg



ELEVATION

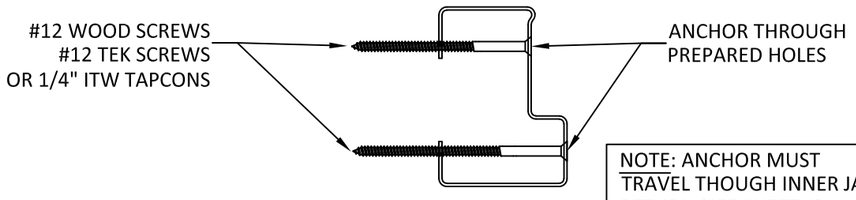


ANCHOR LAYOUT



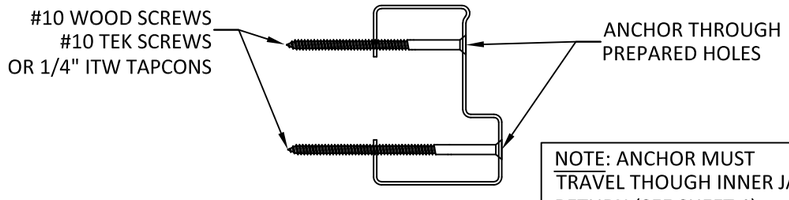
GLAZING DETAIL 1

NOTE:
1) ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE CURRENT FBC.



NOTE: ANCHOR MUST TRAVEL THOUGH INNER JAMB RETURN (SEE SHEET 4)

LOCK JAMB TYP. ANCHOR PLACEMENT



NOTE: ANCHOR MUST TRAVEL THOUGH INNER JAMB RETURN (SEE SHEET 4)

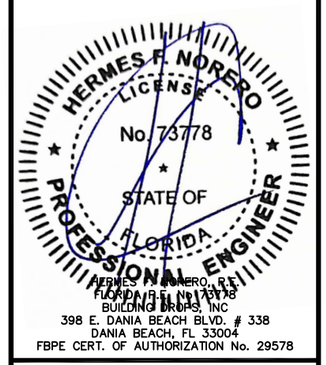
HINGE JAMB TYP. ANCHOR PLACEMENT

PLYCO
PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE, WI 53020
PH: (920) 876-3611 FAX: (920) 876-3527

TITLE: SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT)
ELEVATION, ANCHOR LAYOUT & GLAZING DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 2023 REVISION	FB	09/06/23



FL #: FL15336

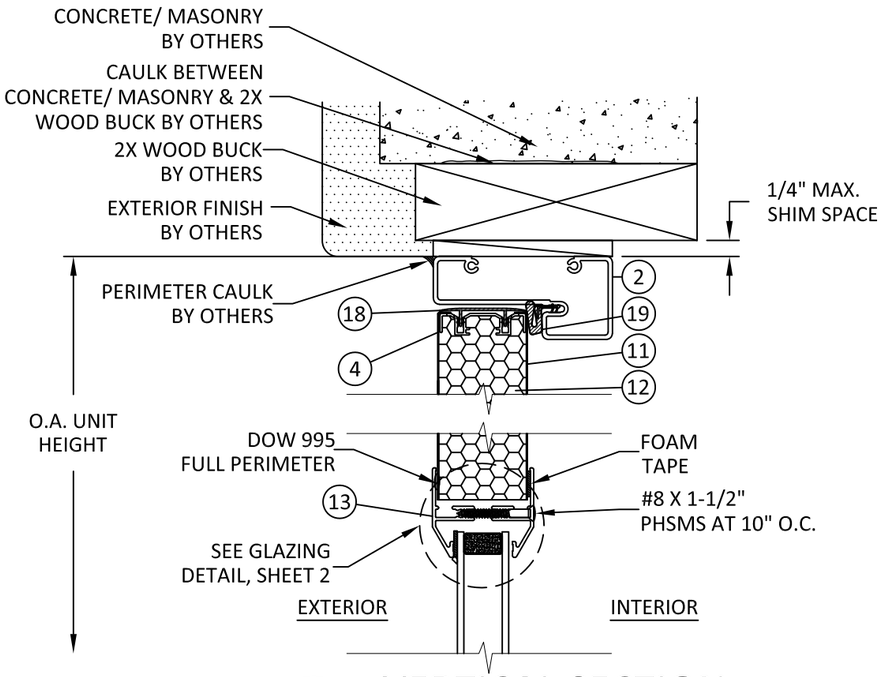
DATE: 01.30.12

DWG. BY:	CHK. BY:
JLA	HFN

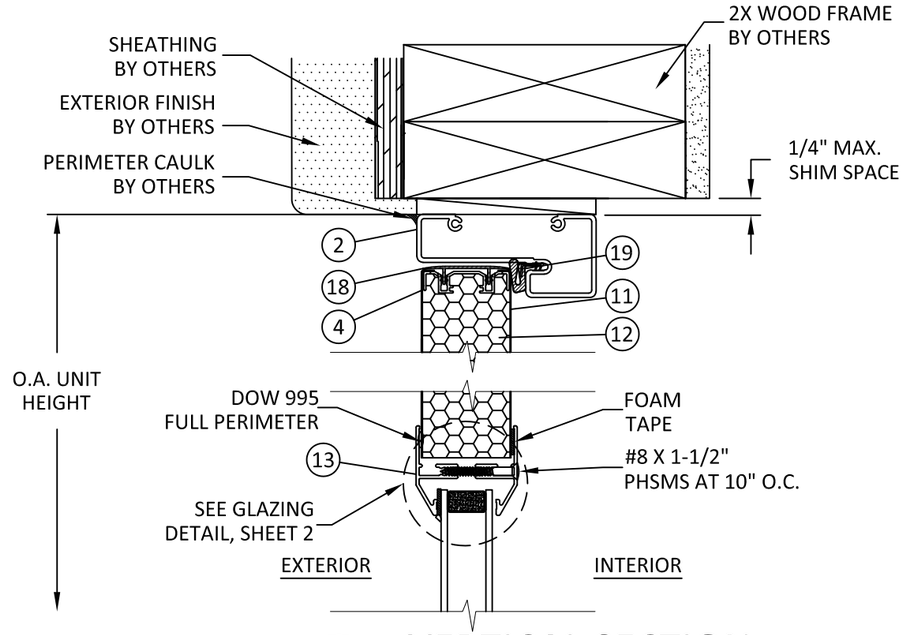
SCALE: NTS

DWG. #: PCO007

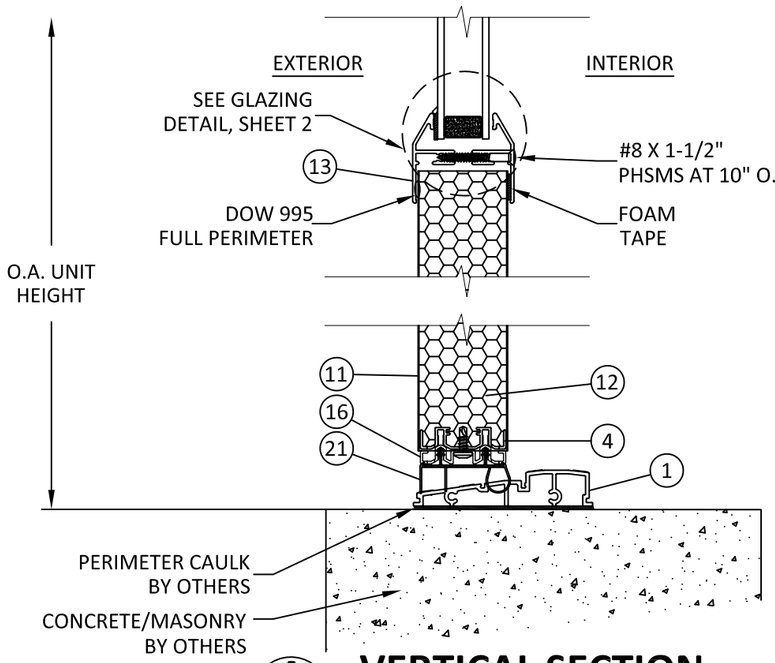
SHEET: 2 OF 5



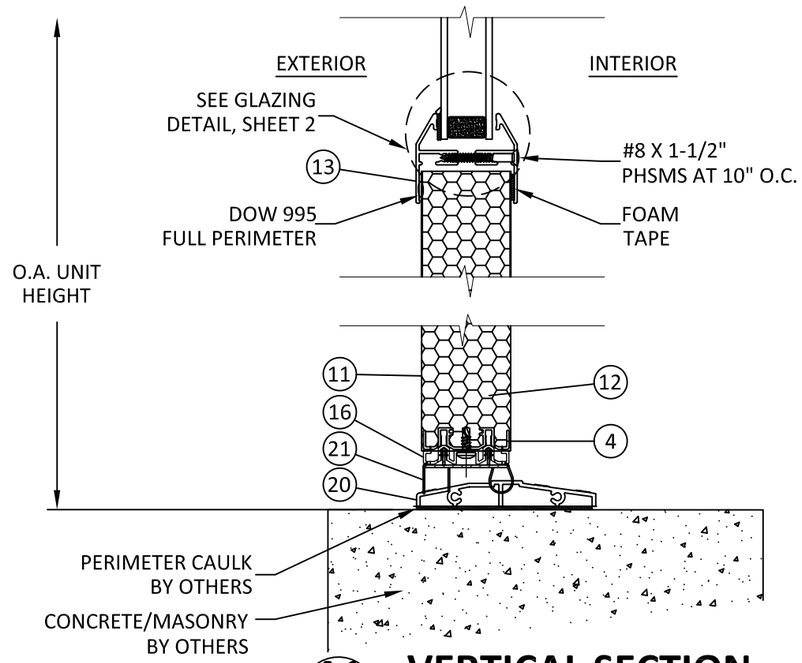
B/3 VERTICAL SECTION
HEAD - 2X WOOD BUCK



C/3 VERTICAL SECTION
HEAD - 2X WOOD FRAME



A/3 VERTICAL SECTION
SILL - CONCRETE/MASONRY



A1/3 VERTICAL SECTION
SILL - ADA THRESHOLD (OPTIONAL)

PLYCO
PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE, WI 53020
PH: (920) 876-3611 FAX: (920) 876-3527

TITLE: SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 2023 REVISION	FB	09/06/23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL15336

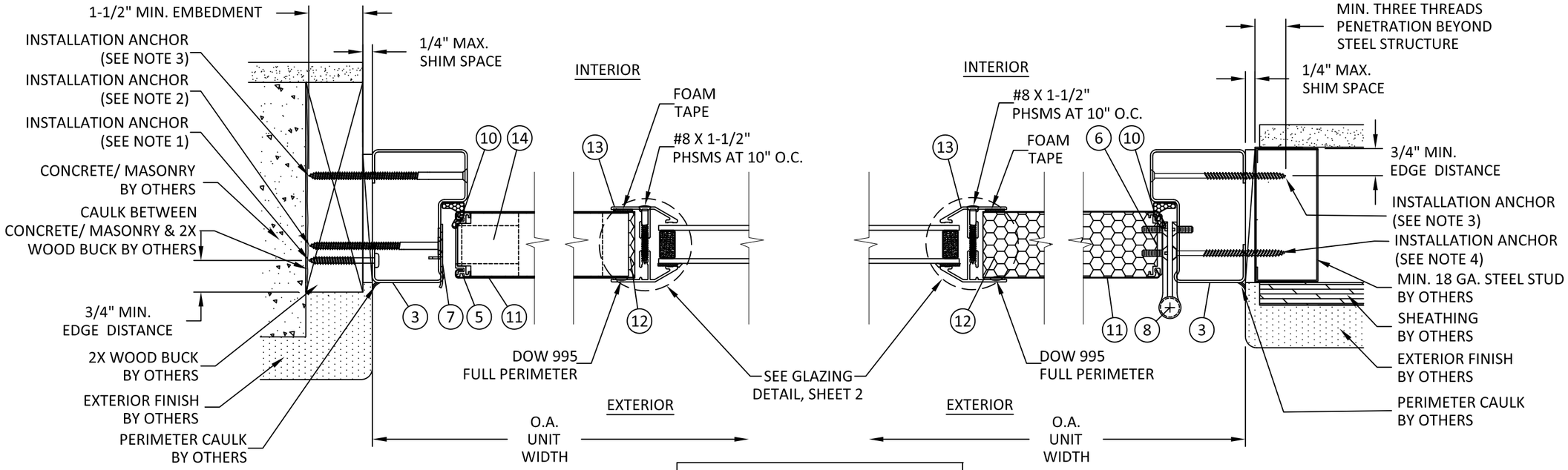
DATE: 01.30.12

DWG. BY:	CHK. BY:
JLA	HFN

SCALE: NTS

DWG. #: PCO007

SHEET: 3 OF 5



D/4 HORIZONTAL SECTION

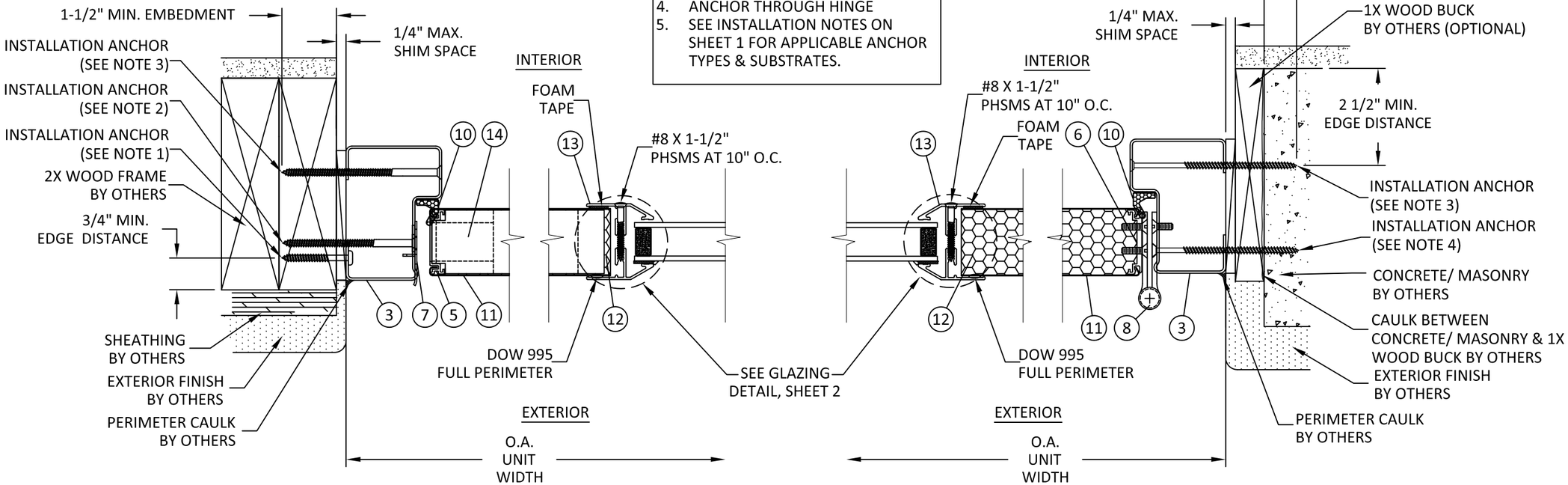
JAMB - 2X WOOD BUCK, TYP.

E/4 HORIZONTAL SECTION

JAMB - STEEL STUD, TYP.

INSTALLATION ANCHOR NOTES

1. ANCHOR THROUGH FRAME RETURN AT STRIKE
2. ANCHOR THROUGH STRIKE-SIDE FRAME
3. ANCHOR THROUGH MAIN FRAME
4. ANCHOR THROUGH HINGE
5. SEE INSTALLATION NOTES ON SHEET 1 FOR APPLICABLE ANCHOR TYPES & SUBSTRATES.



F/4 HORIZONTAL SECTION

JAMB - 2X WOOD FRAME, TYP.

G/4 HORIZONTAL SECTION

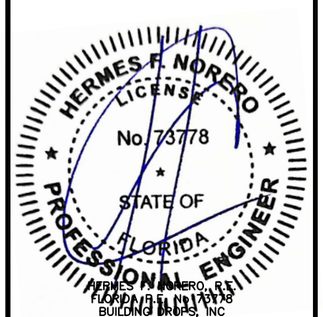
JAMB - MASONRY/CONCRETE, TYP.

PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE, WI 53020
PH: (920) 876-3611 FAX: (920) 876-3527

TITLE: SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT) HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 2023 REVISION	FB	09/06/23



FL #: FL15336

DATE: 01.30.12

DWG. BY:	CHK. BY:
JLA	HFN

SCALE: NTS

DWG. #: PCO007

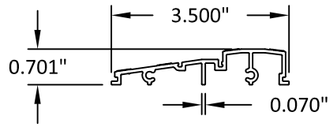
SHEET: 4 OF 5

BILL OF MATERIALS

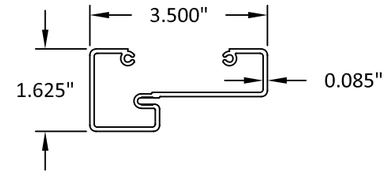
ITEM NO.	DESCRIPTION	PARTS NUMBERS	MATERIAL	MANUFACTURER
1	FRAME SILL	1647	6063-T5	MODERN DOOR
2	FRAME HEAD	1880	6063-T5	MODERN DOOR
3	FRAME JAMB	1539	STEEL	MODERN DOOR
4	HEAD & SILL RAIL	1838-1A	6063-T5	MODERN DOOR
5	STRIKE RAIL	1839	6063-T5	MODERN DOOR
6	HINGE RAIL	1840-B	6063-T5	MODERN DOOR
7	STRIKE PLATE	---	STEEL	MODERN DOOR
8	4" BUTT HINGE	---	STEEL	MODERN DOOR
9	DOOR SWEEP (HEAD)	---	PVC-ALCRYN	MODERN DOOR
10	FOAM FILLED WEATHER SEAL	WS-016	FOAM	MODERN DOOR
11	DOOR SKIN	---	0.021" STEEL	MODERN DOOR
12	PANEL CORE	---	POLYURETHANE	MODERN DOOR
13	LITE-KIT-FRAME	HM-23323	6063-T5	MODERN DOOR
14	LOCK BLOCK	---	WOOD	MODERN DOOR
15	RIM EXIT DEVICE	---	STEEL	VON DUPRIN
16	PANEL SEAL	1929	6063-T5	MODERN DOOR
17	DOOR SWEEP (SILL)	---	PVC-ALCRYN	MODERN DOOR
18	DOOR CAP	---	PVC	MODERN DOOR
19	WEATHER SEAL	9650	PVC	MODERN DOOR
20	ADA SILL (OPTIONAL)	1572	6063-T5	MODERN DOOR
21	DOOR SWEEP	1852	PVC-ALCRYN	MODERN DOOR

NOTE: ALL EXPOSED STEEL COMPONENTS ARE GALVANIZED AND SHOP PRIMED.

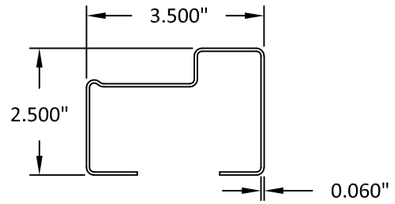
1 FRAME SILL
ALUMINUM 6063-T5



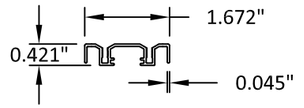
2 FRAME HEAD
ALUMINUM 6063-T5



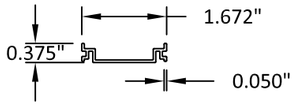
3 FRAME JAMB
16 GA. STEEL



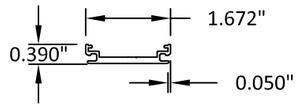
4 HEAD & SILL RAIL
ALUMINUM 6063-T5



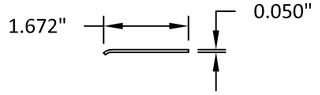
5 STRIKE RAIL
ALUMINUM 6063-T5



6 HINGE RAIL
ALUMINUM 6063-T5



7 STRIKE PLATE
18 GA. STEEL



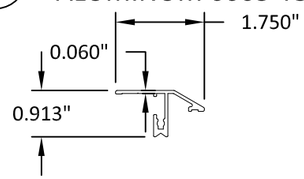
8 4" BUTT HINGE
STEEL

ZINC-PLATED MILD STEEL OR
304 STAINLESS STEEL

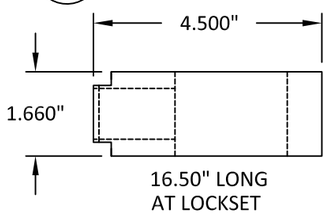
9 DOOR SWEEP (HEAD)
PVC-ALCRYN

10 FOAM FILLED WEATHER SEAL
FOAM

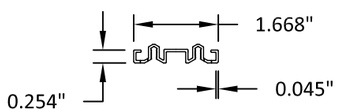
13 LITE-KIT FRAME
ALUMINUM 6063-T5



14 LOCK BLOCK
WOOD



16 PANEL SEAL
ALUMINUM 6063-T5

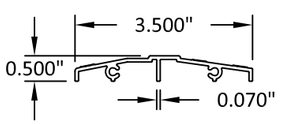


17 DOOR SWEEP (SILL)
PVC-ALCRYN

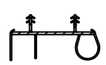
18 DOOR CAP
PVC

19 WEATHER SEAL
PVC

20 ADA SILL (OPTIONAL)
ALUMINUM 6063-T5



21 DOOR SWEEP
PVC-ALCRYN



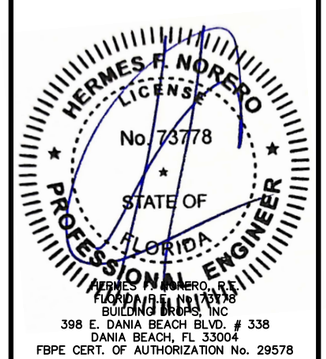
PLYCO
PLYCO CORPORATION
P.O. BOX 386
500 INDUSTRIAL RD.
ELKHART LAKE, WI 53020
PH: (920) 876-3611 FAX: (920) 876-3527

TITLE: SERIES 20EV GLAZED STEEL OUTSWING DOOR (NON-HVHZ) (NON-IMPACT) COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
FBC 2023 REVISION	FB	09/06/23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #: FL15336

DATE: 01.30.12

DWG. BY: JLA | CHK. BY: HFN

SCALE: NTS

DWG. #: PCO007

SHEET: 5 OF 5